

PDR RID Report

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Originator Greg Hunolt

Phone No

Organization

E Mail Address gregh@ulabsgi.gsfc.nasa.gov

Document

RID ID PDR 420

Review SDPS

Originator Ref

Priority 2

Section

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Figure Table

Category Name Design-Ingest

Actionee HAIS

Sub Category

Subject Ingest Subsystem and V0 Data migration

Description of Problem or Suggestion:

Ingest Subsystem not sized to support V0 data migration.

Originator's Recommendation

Resolve by CDR.

GSFC Response by:

GSFC Response Date

HAIS Response by: Eisenstein

HAIS Schedule 5/22/95

HAIS R. E. P. Roycraft

HAIS Response Date 6/30/95

Storage space for Release A V0 data is included in the sizing estimates for the Data Server subsystem. Any preprocessing needed for ingest of the V0 data sets will be fairly small at Release A because of the reasons cited below, and will be performed, for the most part, on Data Server hardware (also explained below). Therefore, the impact on Ingest Subsystem hardware is small in Release A; the impact on the Release A Data Server hardware has been considered in that subsystem's hardware sizing.

In the Release B time frame, V0 data ingest will potentially require more Ingest Subsystem involvement (due to the need for format conversion and greater preprocessing). An initial assessment of required Release B resources will be reported at the IDR for Release B.

The following is a brief elaboration of these statements.

The migration of V0 data sets into ECS involves both the Ingest and the Data Server Subsystems. The Ingest Subsystem provides the Ingest Client software that specifies and performs any data manipulation, reformatting, or other conversion that must take place upon data ingest. This software may execute on hardware located in either the Ingest Subsystem or Data Server Subsystem, depending on several factors. The ingest of data through the ingest client host hardware is generally limited to those cases requiring the higher RMA provided by the Ingest Subsystem configuration (e.g., EDOS and SDPF data ingest), those that require significant pre-processing, and all Level 0 data which is to be stored within the Ingest rolling storage. All data not meeting these criteria are planned to be ingested (using ingest client s/w) using the Data Server Access/Process Coordinator (APC) CPUs.

The V0 data sets identified for ingest into ECS in the Release A time frame will be ingested directly into the Data Server Subsystem using the APCs, moved onto working storage, and from there into the data server repository. All of the Release A data sets are assumed to be in a standard format (ref. Version 1 Data Migration Plan - ECS tech. paper 160-TP-002-001), so minimal format conversion is required. The Data Server Subsystem design documented in ECS doc. 305-CD-002-002 is sized to accommodate the planned number of V0 data sets and data set volume to be migrated in the Release A time frame.

Status **Closed**

Date Closed **7/11/95**

Sponsor **Kobler**

***** Attachment if any *****